FIG. 1

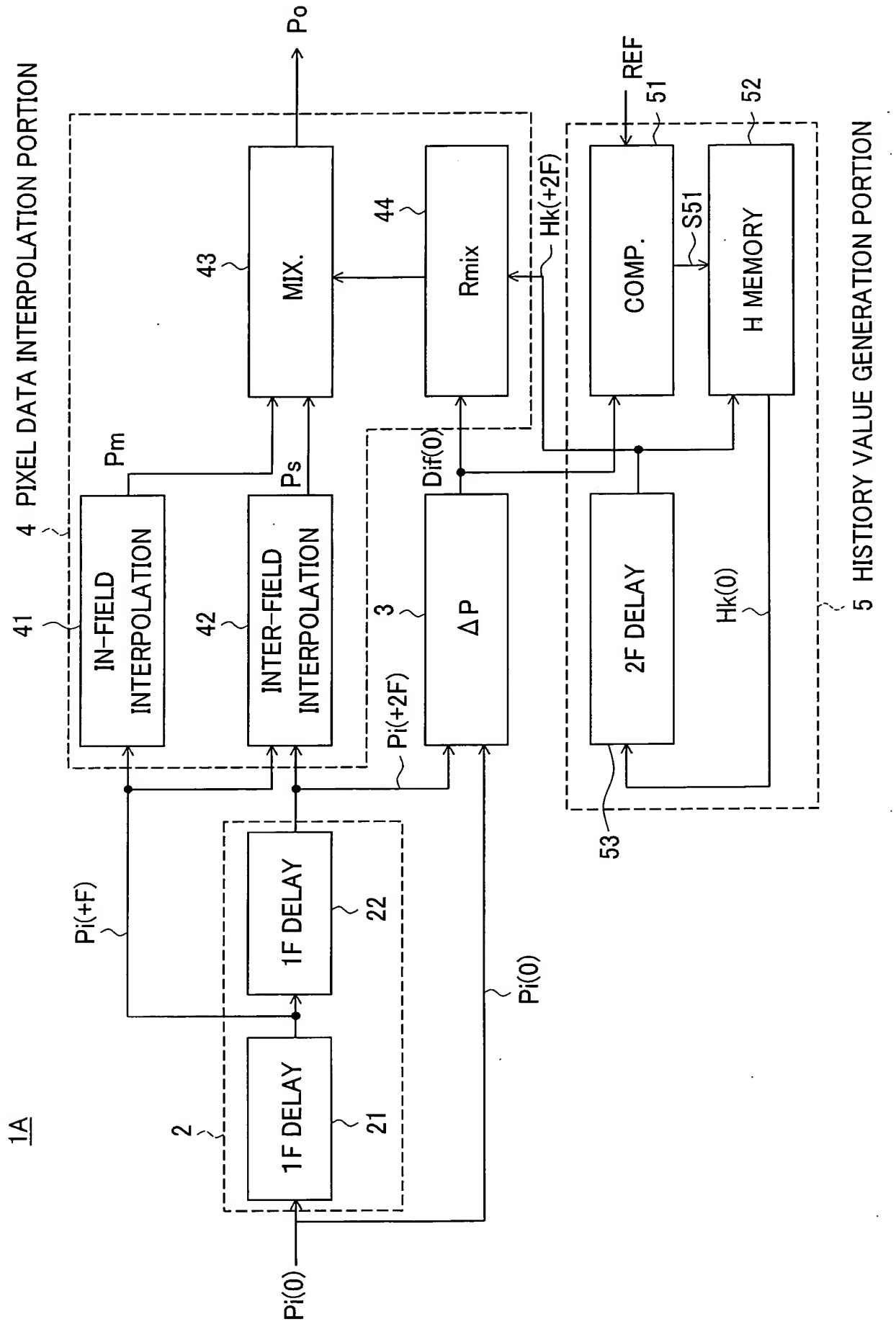

1A
2
21
1F DELAY
22
1F DELAY
Pi(+F)
Pi(0)
Pi(0)
Pi(+2F)
3
ΔP
Dif(0)
4 PIXEL DATA INTERPOLATION PORTION
41
IN-FIELD INTERPOLATION
42
INTER-FIELD INTERPOLATION
Pm
Ps
43
MIX.
44
Rmix
Po
Hk(+2F)
5 HISTIORY VALUE GENERATION PORTION
51
COMP.
REF
S51
52
H MEMORY
2F DELAY
Hk(0)
53

FIG. 2

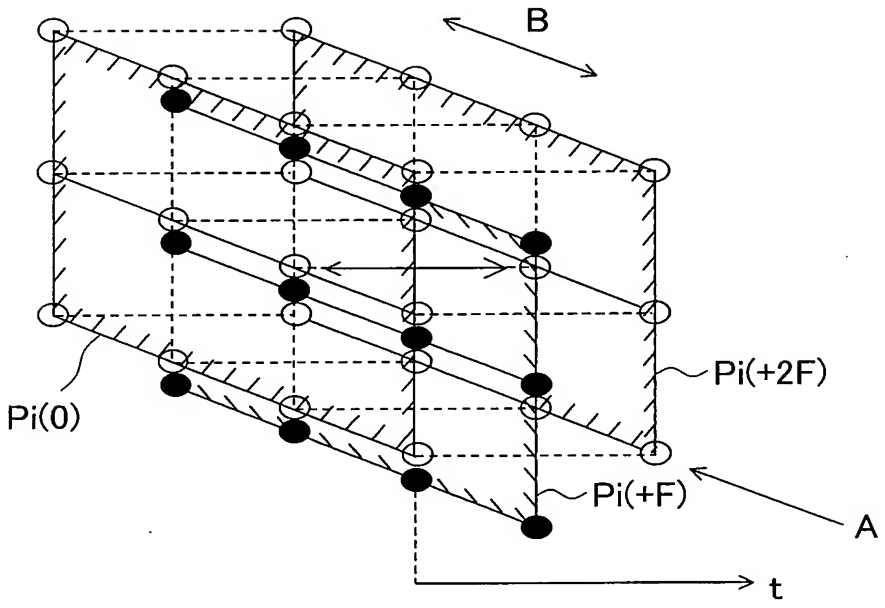


FIG. 3

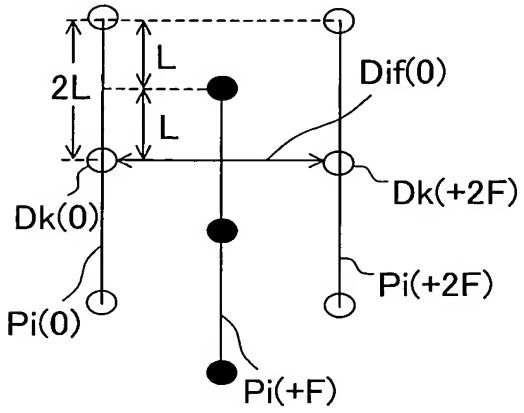


FIG. 4

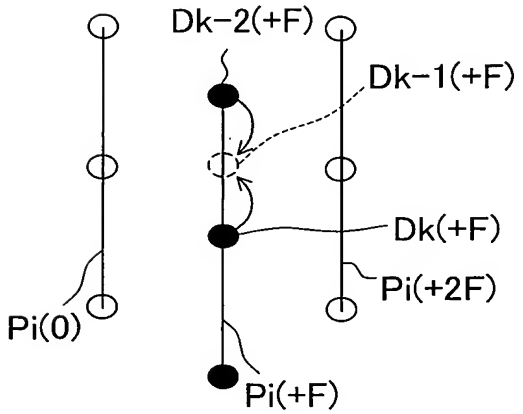


FIG. 5

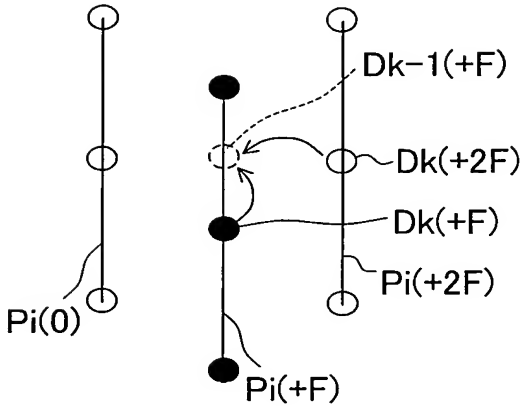


FIG. 6

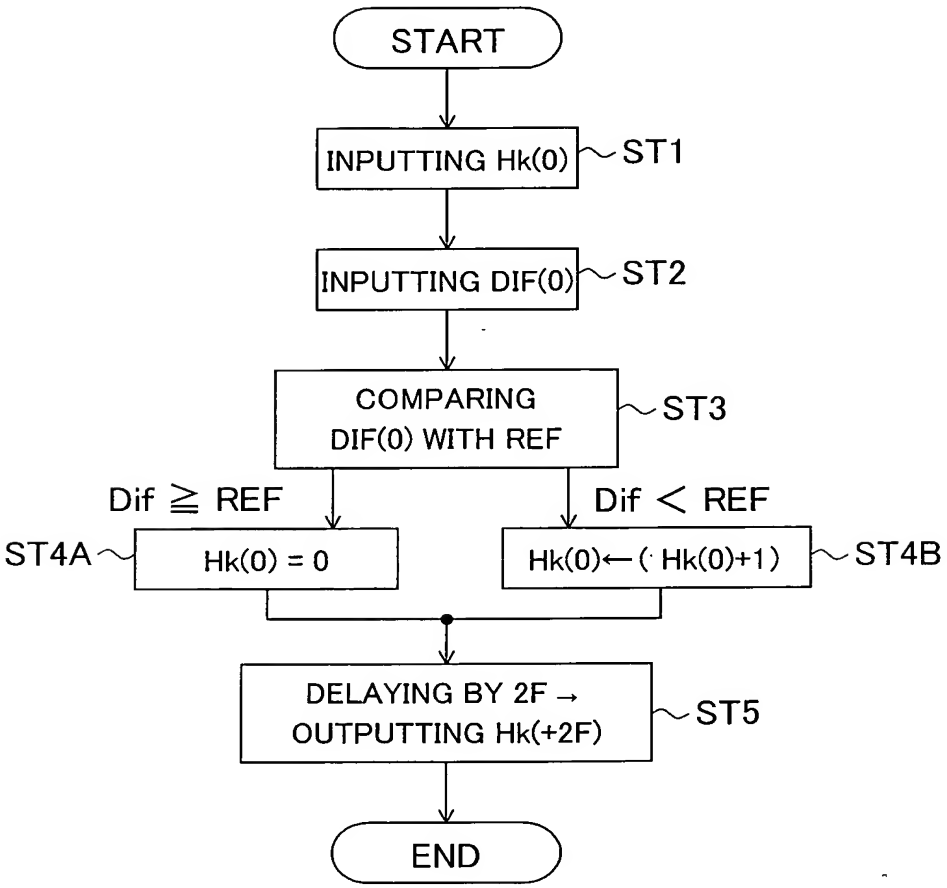

START
INPUTTING Hk(0)
ST1
INPUTTING DIF(0)
ST2
COMPARING
DIF(0) WITH REF
ST3
Dif ≧ REF
Dif < REF
ST4A
Hk(0) = 0
Hk(0)← (Hk(0)+1)
ST4B
DELAYING BY 2F →
OUTPUTTING Hk(+2F)
ST5
END

FIG. 7

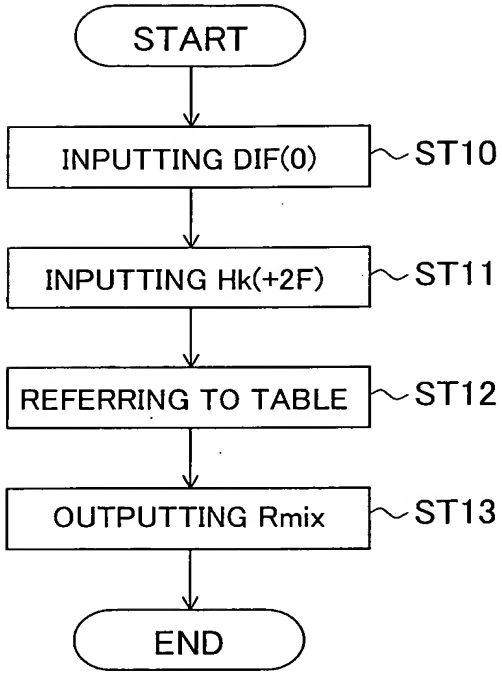

START
INPUTTING DIF(0)
ST10
INPUTTING Hk(+2F)
ST11
REFERRING TO TABLE
ST12
OUTPUTTING Rmix
ST13
END

FIG. 8

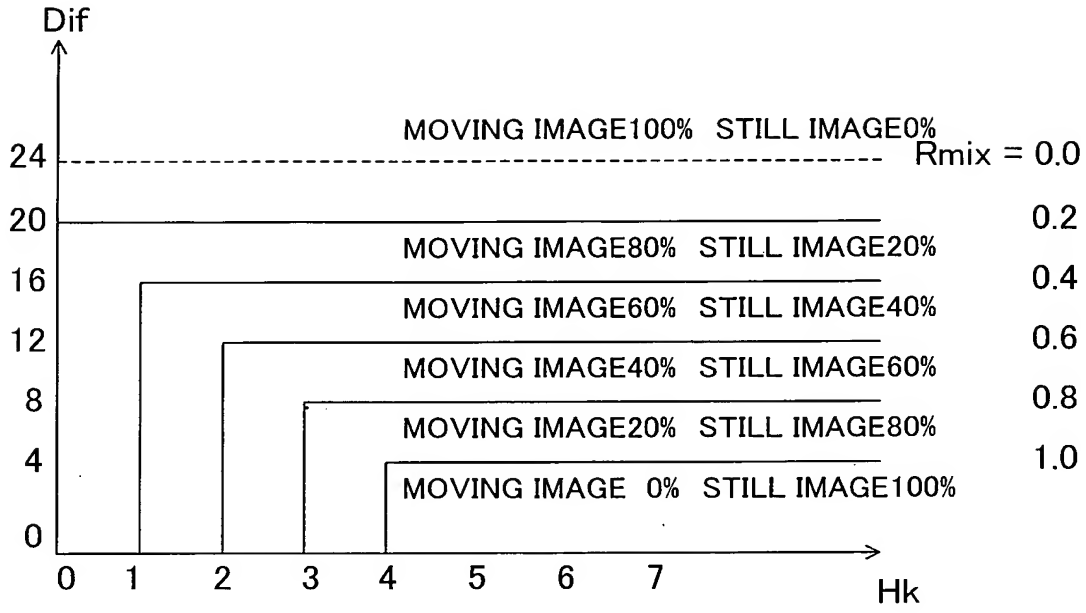
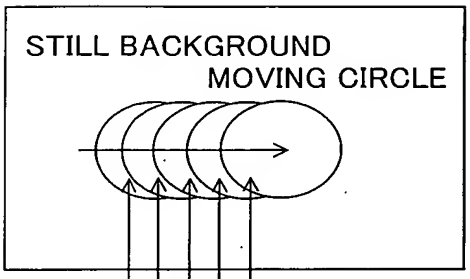

Dif
24
20
16
12
8
4
0
0 1 2 3 4 5 6 7
Hk
MOVING IMAGE100% STILL IMAGE0%
Rmix = 0.0
0.2
MOVING IMAGE80% STILL IMAGE20%
0.4
MOVING IMAGE60% STILL IMAGE40%
0.6
MOVING IMAGE40% STILL IMAGE60%
0.8
MOVING IMAGE20% STILL IMAGE80%
1.0
MOVING IMAGE 0% STILL IMAGE100%

FIG. 9



	Hk	Dif	Rmix
CURRENT	0	30	MOVING IMAGE 100% STILL IMAGE 0%
1 FRAME BEFORE	0	0	MOVING IMAGE 80% STILL IMAGE 20%
2 FRAMES BEFORE	1	0	MOVING IMAGE 60% STILL IMAGE 40%
3 FRAMES BEFORE	2	0	MOVING IMAGE 40% STILL IMAGE 60%
4 FRAMES BEFORE	3	0	MOVING IMAGE 20% STILL IMAGE 80%

FIG. 10

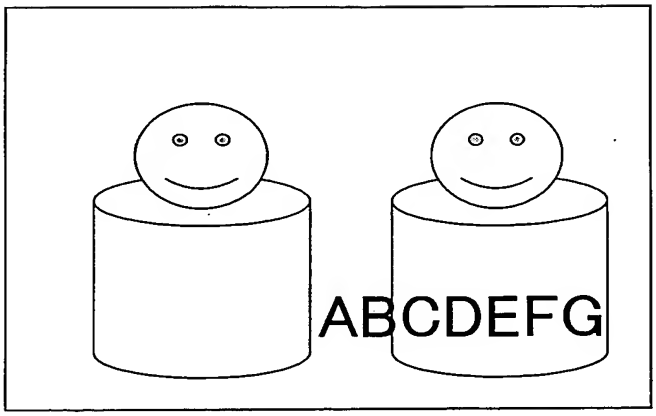
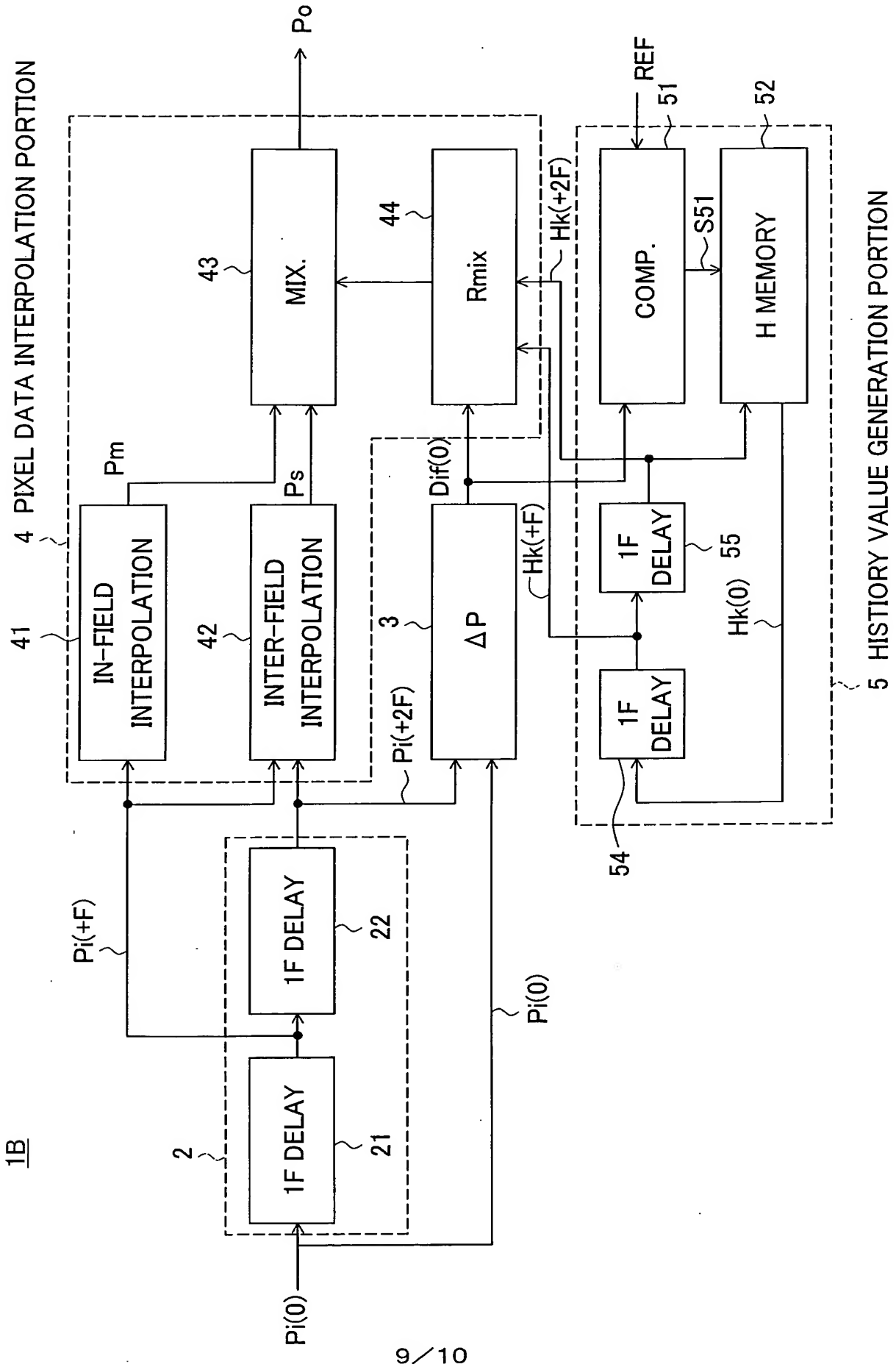


FIG. 11


1B
2
21
1F DELAY
22
1F DELAY
Pi(+F)
Pi(0)
Pi(0)
Pi(+2F)
3
ΔP
Dif(0)
Hk(+F)
4 PIXEL DATA INTERPOLATION PORTION
41
IN-FIELD INTERPOLATION
Pm
42
INTER-FIELD INTERPOLATION
Ps
43
MIX.
44
Rmix
Po
Hk(+2F)
REF
51
COMP.
S51
52
H MEMORY
5 HISTIORY VALUE GENERATION PORTION
1F DELAY
55
Hk(0)
1F DELAY
54

Explanation of References

1A, 1B: image processing apparatus

2: field delay portion

21: first field delay portion

22: second field delay portion

3: frame difference calculation portion (motion detection portion)

4: pixel data interpolation portion

41: in-field interpolation portion

42: between-field interpolation portion

43: pixel data mixture portion

44: mixture ratio setting portion

5: history value generation portion

51: motion comparison portion (motion detection portion)

52: history value memory

53: history value delay portion

54: first history value field delay portion

55: second history value field delay portion

Pi: input field screen

Po: output field screen

Pm: moving image interpolation screen

Ps: still image interpolation screen

Dif: frame difference

Hk: history value

REF: reference

Rmix: mixture ratio